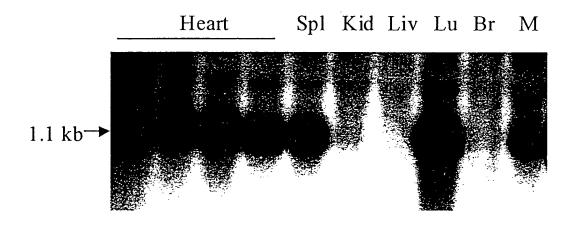
MKALRAVLLI LLLSGQPGSS WAQEAGDVDL ELERYSYDDD GDDDDDDEE
EEEEETNMIP GSRDRAPPLQ CYFCQVLHSG ESCNETQRCS SSKPFCITVI
SHGKTDTGVL TTYSMWCTDT CQPIVKTVDS TQMTQTCCQS TLCNIPPWQS
PQIHNPLGGR ADSPLKGGTR HPQGDRFSHP QVVKVTHPQS DGAHLSKGGK
ANQPQGNGAG FPAGWSKFGN VVLLLTFLTS LWASGA

FIG. 1

Y Commence of the commence of
TETAGEGAACCCCTTEGGTGGACAGAACAGCCTGAGTCAGGATGAAAGCTCTEAGGGCTGTCCTCCTGATCTTGCTACTCAGTGGACAGC
AGATCGCTTGGGGGAAGCCACCTGTCTTGTCGGGACTCAGTCCTACTTTCGAGAGTCCCGACAGGAGGACTAGAACGATGAGTCACCTGTCG
L. RTPS V D RTA. V R (H) K A L R A V L L L L L S G O
CAGGGAGCAGCTGGGCACAAGAAGCTGGCGATGTGGACCTGGAGCTGAGAGCGCTACAGCTACATGATGATGATGATGATGATGATGATGATGA
GTCCCTCGTCGACCCGTGTTCTTCGACCGCTACACCTGGACCTCGATCTCGCGATGTCGATGCTACTACTGCCACTACTGCTACTACTGC
PGSSWAOEAGDVDLELERYSYDDDGDDD ATGATGAAGAAGAGGAGGAGGAGAGAGAGAGAGGAGGAGG
TACTACTTCTTCTCCTCCTCCTCTGGTTGTACTAGGGACCGTCGTCCCTGTCTCGTGGCGGAGATGTCACGATGAAGACGGTTCACG
D D E E E E E E T N M ! P G S R D R A P P L O C Y F C O Y TTCACAGCGGGGAGAGCTGCAACAGAGACAGAGAACAGCAGAGAACAGCAGCAAACTGACA
AAGTGTCGCCCCTCTCGACGTTGCTCTGTGTCTCTACGAGGGTCGTCGGGAAGACATAGTGTCAGTAGAGGGGTACCGTTTTGACTGT
L H S G E S C N E T O R C S S S K P F C I T V I S H G K T D
CAGGTGTCCTGACGACCTACTCCATGTGGTGTACTGATACCTGCCAGCCCCATCGTGAAGACAGTGGACAGCACCCAAATGACCCAGACCT
GTCCACAGGACTGCTGGATGAGGTACACCACATGACTATGGACGGTCGGGTAGCACTTCTGTCACCTGTCGTGGGTTTACTGGGTCTGGA
T G V L T T Y S M W C T D T C O P I V K T V D S T O M T O T
GTTGCCAGTCCACACTCTGCAATATTCCACCCTGGCAGAGCCCCCAAATCCACAACCCTCTGGGTGGCCGGGCAGACAGCCCCTTGAAGG
CAACGGTCAGGTGTGAGACGTTATAAGGTGGGACCGTCTCGGGGGGTTTAGGTGTTGGGAGACCCACCGGCCCGTCTGTCGGGGAACTTCC
C C O S T L C N I P P W O S P O I H N P L G G R A D S P L K
GTGGGACCAGACATCCTCAAGGTGACAGGTTTAGCCACCCCCAGGTTGTCAAGGTTACTCATCCTCAGAGTGATGGGGCTCACTTGTCTA
CACCCTGGTCTGTAGGAGTTCCACTGTCCAAATCGGTGGGGGTCCAACAGTTCCAATGAGTAGGAGTCTCACTACCCCGAGTGAACAGAT
G G T R H P O G D R F S H P O V V K V T H P O S D G A H L S
AGGGTGGCAAGGCTAACCAGCCCCAGGGAAATGGGGCCGGATTCCCTGCAGGCTGGAGCAAATTTGGTAACGTAGTTCTCCTGCTCACCT
TCCCACCGTTCCGATTGGTCGGGGTCCCTTTACCCCGGCCTAAGGGACGTCCGACCTCGTTTAAACCATTGCATCAAGAGGACGAGTGGA
KGGKANDPOGNGACEPACHSKECHVVIII
K G G K A N O P O G N G A G F P A G W S K F G N V V L L L T TCCTCACCAGTCTGTGGGGGGGTAAAAGACTCGTCCTCCCCAACCAGCACCTTTCACCATTTCACCATTCACATTCACCATTCACCATTCACCATTCACCATTCACCATTCACCATTCACCATTCACATTCACCATTCACATTCACCATTCATTCACATTCATTCACATTCATTCACATTCATTCACATTCATTCATTCATTCATTCATTCATTCATTCACATTC
K G G K A N O P O G N G A G F P A G W S K F G N V V L L L T TCCTCACCAGTCTGTGGGCATCAGGGGCCTAAAGACTCGTCCTCCCCCAACCAGGACCCTTCAGCCTTTCCTCCCTGACAACCAGCTTCA
K G G K A N O P O G N G A G F P A G W S K F G N V V L L L T TCCTCACCAGTCTGTGGGCATCAGGGGCCTAAAGACTCGTCCTCCCCCAACCAGGACCCTTCAGCCTTTCCTCCCTGACAACCAGCTTCA AGGAGTGGTCAGACACCCGTAGTCCCCGGATTTCTGAGCAGGAGGGGGGTTGGTCCTGGGAAGTCGGAAGGAGGAGGACTGTTGGTCGAAGT
K G G K A N O P O G N G A G F P A G W S K F G N V V L L L T TCCTCACCAGTCTGTGGGCATCAGGGGCCTAAAGACTCGTCCTCCCCCAACCAGGACCCTTCAGCCTTTCCTCCCTGACAACCAGCTTCA  AGGAGTGGTCAGACACCCGTAGTCCCCGGATTTCTGAGCAGGAGGGGGGTTGGTCCTGGGAAGTCGGAAAGGAGGAGGGACTGTTGGTCGAAGT  F L T S L W A S G A . R L V L P O P G P F S L S S L T T S F GAGAATAAACTTGAATGTCTTTTGCCATCTAAAAAAAAAA
K G G K A N O P O G N G A G F P A G W S K F G N V V L L L T TCCTCACCAGTCTGTGGGCATCAGGGGCCTAAAGACTCGTCCTCCCCCAACCAGGACCCTTCAGCCTTTCCTCCCTGACAACCAGCTTCA  AGGAGTGGTCAGACACCCGTAGTCCCCGGATTTCTGAGCAGGAGGGGGGTTGGTCCTGGGAAAGGAGGAGGACTGTTGGTCGAAGT  F L T S L W A S G A . R L V L P O P G P F S L S S L T T S F

Fig. 2

## Rat Multiple Tissue Northern Blot



Probe: P00188\_D12 rat cDNA

Fig. 3

B

## Fig 4

## Expression of P00188\_D12 in treated rat cardiac myocytes

